

ROBERTSON

GALBESTOS

THE ULTIMATE IN PROTECTED METALS

... FOR ROOFS

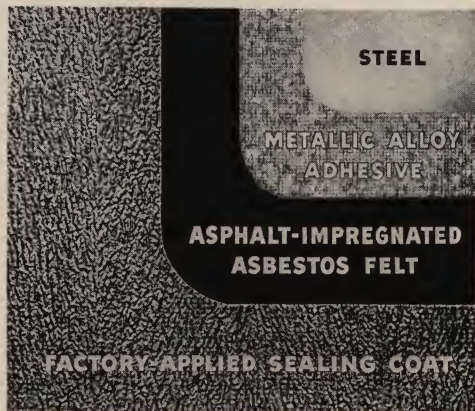
FOR SIDEWALLS



H. H. ROBERTSON COMPANY, PITTSBURGH, PA.

Galbestos-

THE IMPROVED PROTECTED

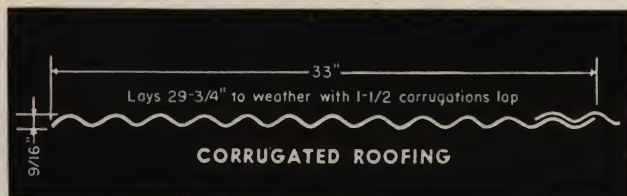


GALBESTOS is the ultimate in protected metal . . . another milestone by the originators of world-renowned RPM. The secret — the unbreakable Galbestos Grip — lies in the Robertson method of fusing asbestos to sheet metal by means of a zinc alloy. The asbestos becomes imbedded in the metal . . . an integral part of the sheet. To understand the Galbestos Grip, lock your

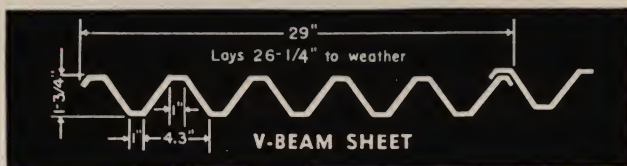
fingers like the picture and tug. You will then be gripping like the protecting fibres of asbestos interlock with the metal core itself.

Even when the asbestos felt is later impregnated with asphalt and the sheet weatherproofed, the grip is so inseparable that Galbestos can be rolled, sheared, bent, crimped and riveted like unprotected metal. It can be

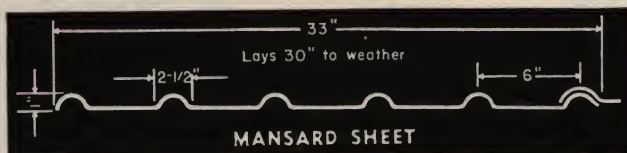
GALBESTOS CORRUGATION STYLES



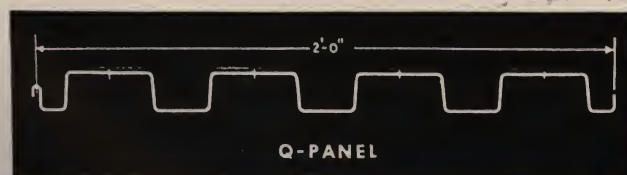
Standard Corrugated Roofing Sheets—Have 12 1/2 corrugations (of 2 3/8 inch nominal width) are approximately 20% wider than commercial type of corrugated steel sheeting, providing a greater effective covering area. Sheets are 33 inches wide with a standard side lap of 1 1/2 corrugations, providing an average coverage of 29 1/4 inch. Roofing sheets are available up to 12 feet in length, and are laid with a minimum end lap of 6 inches.



V-Beam Sheets—A special deep-corrugation, long span sheet. This form provides the structural effect of a series of beams, and this offers exceptional strength. Corrugations are 5.3 inches wide, 1 3/4 inches deep. Sheet is 29 inches wide and lays 26 1/4 inches to weather. Supplied with a minimum end lap of 6 inches for roofing and 4 inches for siding.



Mansard Sheet—For use where its particular architectural effect is desired. Galbestos Mansard Sheets for roofing and siding have 6 beads, are 33 inches wide with a side lap of one bead, provide an average coverage of 30 inches. Available in lengths up to 12 feet. Supplied with a minimum end lap of 6 inches for roofing and 4 inches for siding.



Q-Panel (Section 3) Units—Have 1 1/2" deep flutings on 6" centers. They are fabricated in 2' widths in lengths up to 12 feet. Interlocking male and female lips provide waterproof joints when caulked. When used as a roof deck, insulation and waterproofing may be used if desired. Waterproof outer coating is not used on this form of Galbestos.

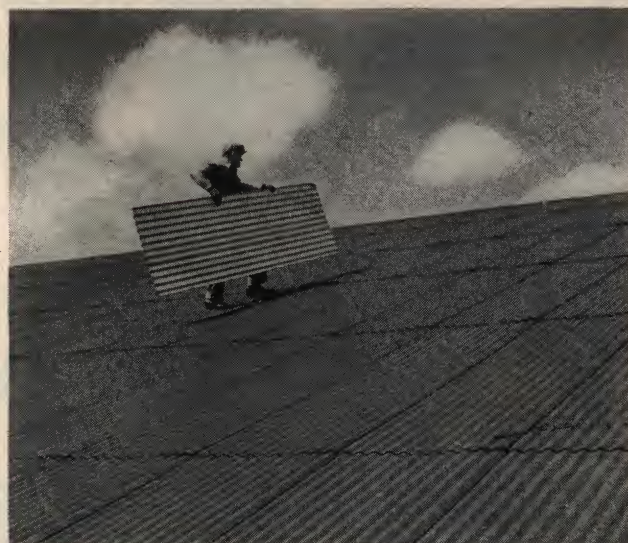
METAL FOR ROOFS AND SIDEWALLS

worked on ordinary sheet metal shop equipment. Under a blow torch it will merely char. It will not shatter under hose streams during a fire. It is safe to walk on. It will withstand acid and alkali fumes.

Galbestos has been tested under every weather and industrial condition, in the crucible conditions of war as well as those of peace. Galbestos endures the most severe weather conditions, corrosive fumes, excessive heat as no protected metal has before.

WHAT HAS GONE BEFORE

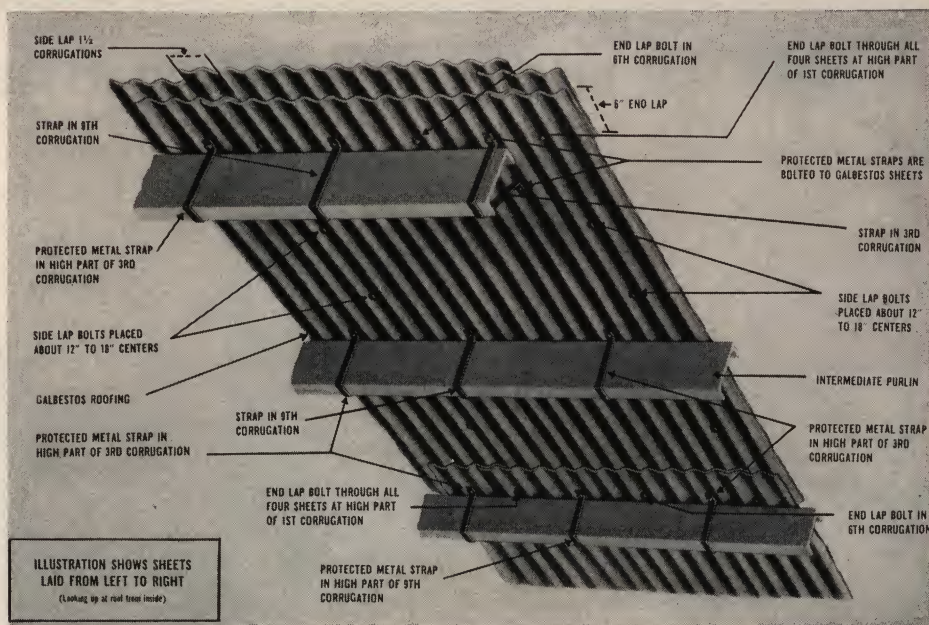
The H. H. Robertson Company is the originator and manufacturer of asbestos protected metal. As Robertson Protected Metal (RPM) this material was placed on the market in 1905, and found international acceptance. There followed continuous research and the observation of the material in service. This development of the Robertson system of metal protection, whereby asphalt and asbestos coatings are permanently bonded to steel, involved practically a new and undiscovered technology in



the processing and asphaltic materials. Now, the same Robertson engineers who produced the world-famous RPM offer Galbestos, a prewar development for postwar construction.

ENGINEERING DATA

The method of securing sheets to the frame work of buildings is based on the use of protected metal strap fastenings, formed to fit around purlins and girts, and securely fastened to the sheets by specially designed sherardized cup head bolts. Shown is the standard location of straps, sidelap bolts, and endlap bolts. The number of fasteners can be varied.



recommended purlin spacing . . .

Note: Where the Roof slope is less than 3 in. in 12 in. all side and end laps should be laid in ROBERTSON CEMENT CORRUGATED Sheets are not recommended where slope is less than 2 in. in 12 in. Mansard Sheets are not recommended for slopes under 4 in. in 12 in.	GA.	CORRUGATED OR MANSARD			V-BEAM	Q-UNIT
		ROOFING Slopes over 4" in 12"	ROOFING Slopes under 4" in 12"	SIDING		
	24	4'9"	...	4'10"	7'0"	...
	22	5'9"	4'9"	5'10"	8'0"	7'0"
	20	6'6"	5'9"	6'8"	8'9"	7'6"
	18	7'6"	6'6"	7'8"	10'0"	8'6"

Available finishes

Galbestos is available in a variety of finishes to meet varying requirements. The black surface is usually preferred for general industrial conditions, but the standard sheet also comes in maroon. An aluminum paint finish is again available.

Galbestos-

FOR STANDARD BUILDINGS without insulation . . .



GALBESTOS possesses all the necessary qualifications for an industrial building covering material, including altogether adequate insulating qualities. This is because Galbestos sheets have a relatively low conductivity factor of 0.85 B.t.u., and because the construction, preformed flashings, and corrugation closers assure tight joints.

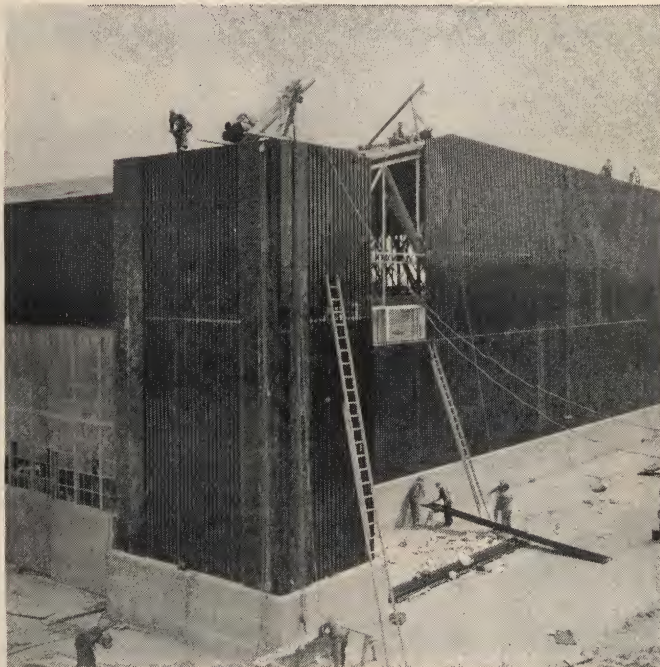
FIRE RESISTIVE — tested and classified by Underwriters' Laboratories and Factory Mutuals Laboratories.

Galbestos steel core sheet remains at a low temperature under fire exposure, minimizing buckling and warping. The amount of combustible material present in the coatings is so small that a flame cannot be sustained. Coatings will char under prolonged fire exposure, but the asbestos felt will be left intact, tight to the steel.

◀ A section of a typical roof sheet, removed for laboratory analysis after 17 years of service. Arrows point out (1) side lap seal, (2) end lap seal and (3) bolt hole seal. Note the new appearance where the laps occurred, complete absence of corrosion at bolt holes, and areas where part of coatings pulled away when sheets were separated . . . indicating an extremely tight job.

Galbestos-

FOR AIR-CONDITIONED BUILDINGS with insulation . . .



4

This construction photograph shows how the wall panels were installed with the flat plate out for pilasters and decorative effect.

The completed building after it was painted. Note the attractive architectural effect of contrasting wall surfaces — fluted and flat.

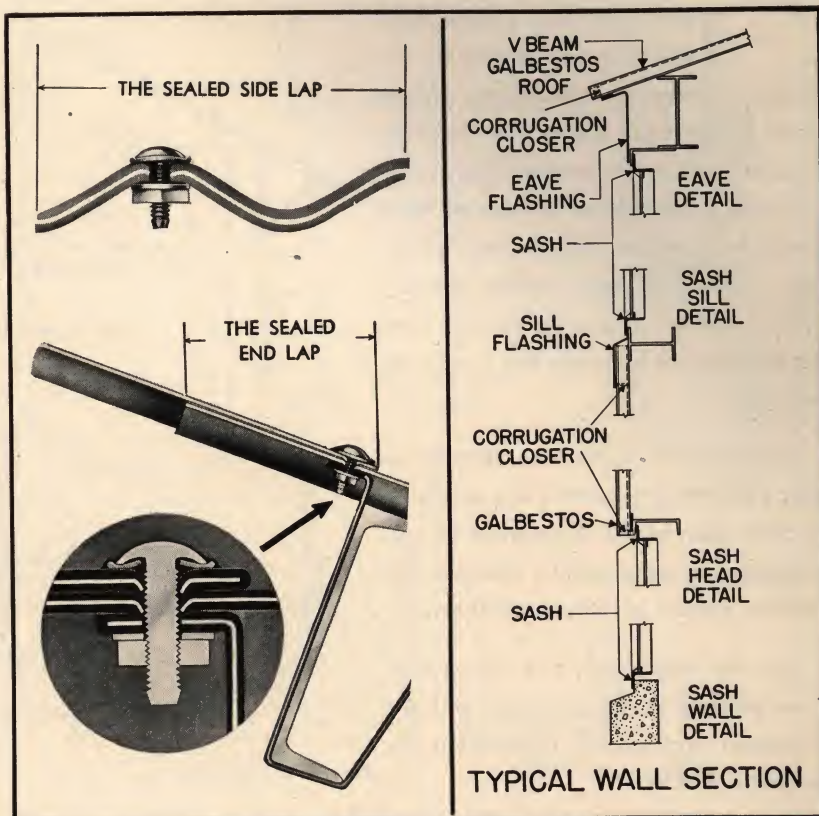
H. H. ROBERTSON COMPANY

SEALED CONSTRUCTION

IN the sectional details shown here note particularly the absolutely tight, sealed end and side laps which provide a leak-proof assembly.

When Galbestos sheets are installed as roofing and siding, they seal together permanently at the over-lapping points because: (1) these sheets, with their core of steel, are not rigid but slightly flexible, each one conforming perfectly with the corrugations of its neighbor and adapting itself to any deflections or movements in the supporting framework; and (2) the outer or sealing coat remains semi-adhesive throughout the life of the material.

Thus a Galbestos roof or sidewall is a solid integral barrier to the infiltration or accumulation of moisture, chemicals and other deteriorating influences.

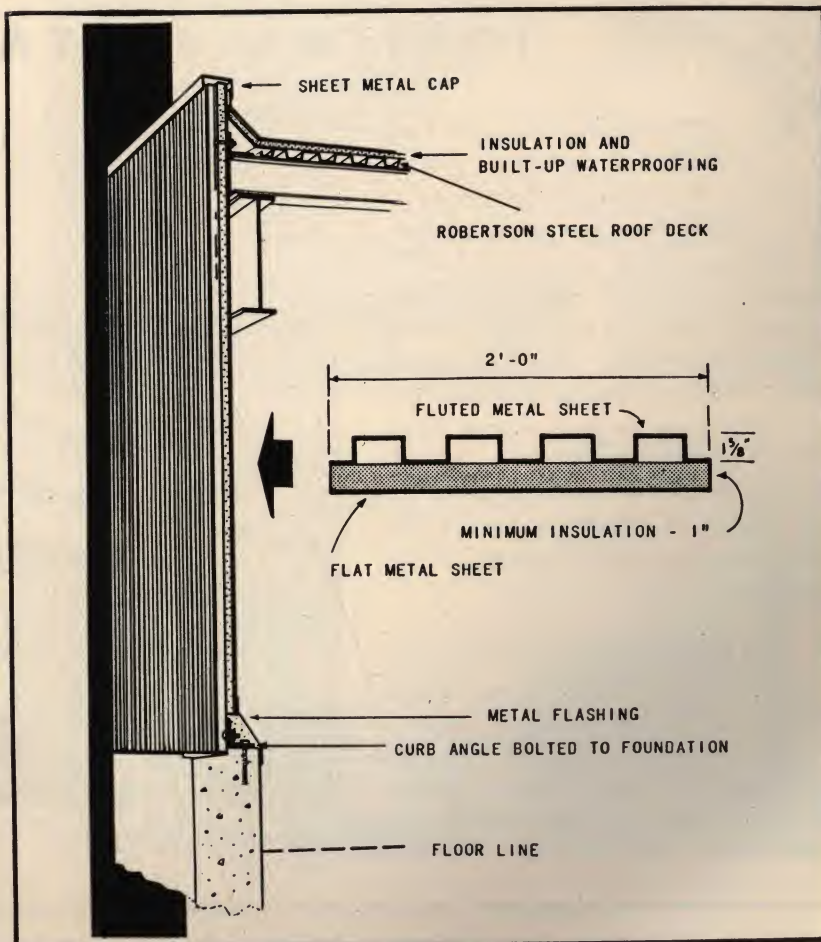


THE modern use of steel and glass, in many combinations, to make the most of unbroken but interesting planes of wall and glass surfaces is readily met by insulated Galbestos wall panels.

The insulating value of the panel is thoroughly protected by the steel plate covering the insulation board and by joints that are tight at windows and junction points with other materials. This prevents the infiltration of air and furnishes a 100% moisture barrier both from inside and outside the building.

Thus the insulating material suffers no damage from vapor pressure and condensation; also air conditioning may be used with maximum efficiency.

These panels can be used with either the flat or fluted surface exposed. This offers the designer an interesting variety of textures to enhance the appearance of the building.



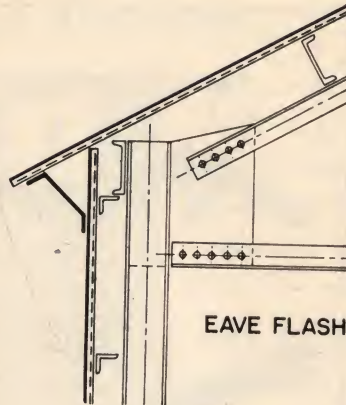
Galbestos-

FLASHING DETAILS

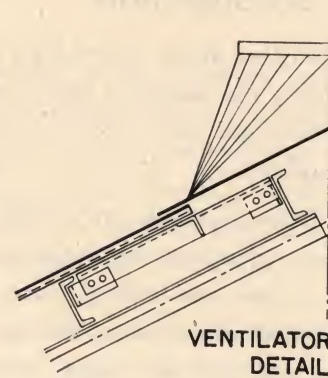
THE details on this page show the thorough provisions for flashing Galbestos installations. When these flashings are placed they form an effective seal at the overlapping points. This seal is maintained in spite of wind pressure, vibrations, impacts, etc. Wind, rain, snow and dust cannot possibly filter in through such laps, nor can heat escape from or leak into the interior of buildings.

Special flashings which conform to the shape of the corrugations are available to close each of the three types of corrugations at those points where a flat flashing crosses a corrugated sheet.

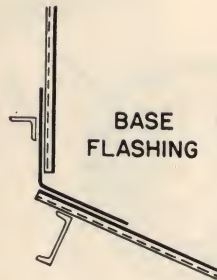
For any application not covered on these pages please get in touch with the Robertson Engineering Department for complete details.



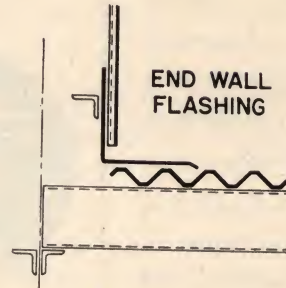
EAVE FLASHING



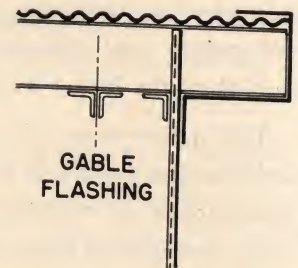
VENTILATOR BASE
DETAIL



BASE
FLASHING



END WALL
FLASHING



GABLE
FLASHING

Galbestos-

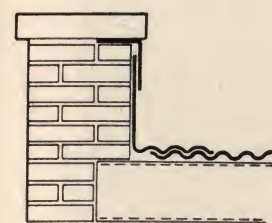
TYPICAL INSTALLATIONS

GALBESTOS provides quick and efficient building elements which ideally adapt themselves to the clean lines of modern architecture. Where quick erection is the by-word, Galbestos wall panel and roofing meet this need most efficiently and offer distinct advantages: attractive appearance, quick erection, long service life, a one-hundred percent salvage value; and in addition, while such structures may be erected with all the speed usually found in temporary construction, they will have all the qualities of permanence.

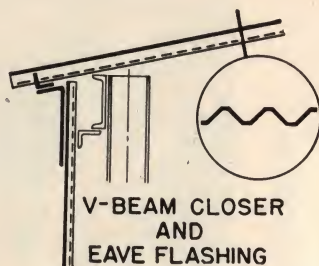
Galbestos will go far to stimulate the production of good, modern design. Easily worked, Galbestos has proved to be the most modern of building materials for factories, schools, airplane hangars, industrial plants, and many other types of buildings.



● Galbestos wall panel and roofing was used in the erection of this huge building at a U. S. Navy Yard.



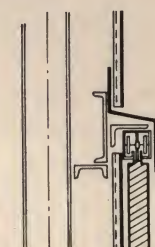
PARAPET WALL
DETAIL



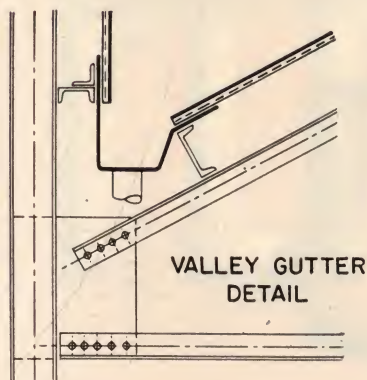
V-BEAM CLOSER
AND
EAVE FLASHING



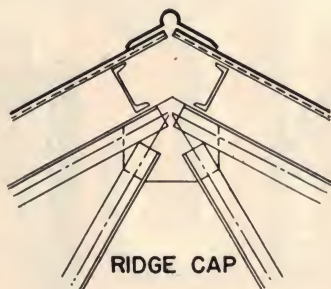
WINDOW HEAD
DETAIL



DOOR TRACK
HOOD DETAIL



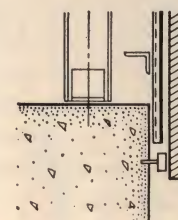
VALLEY GUTTER
DETAIL



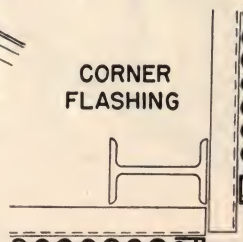
RIDGE CAP



WINDOW SILL
DETAIL



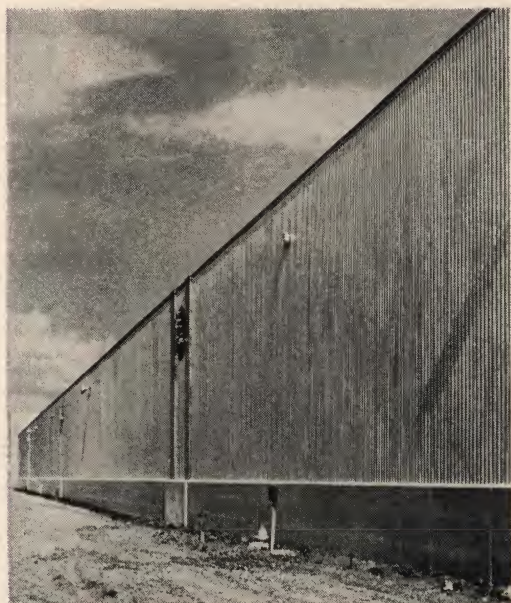
DOOR SILL DETAIL



CORNER
FLASHING



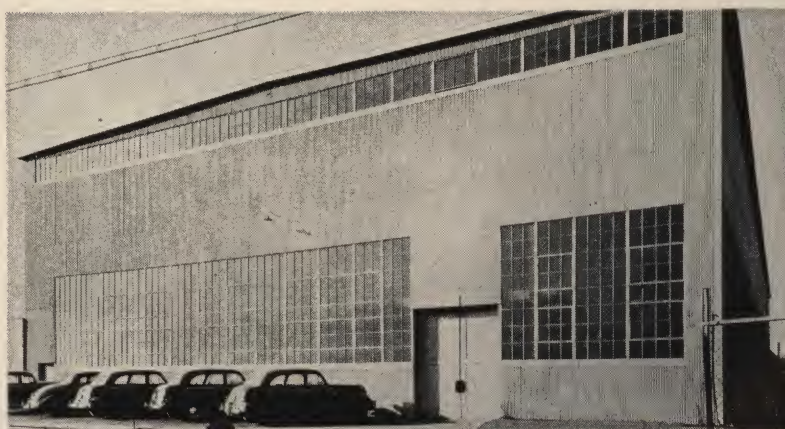
DOOR JAMB DETAIL



• Above: Q-panels produced this attractive insulated plant building.

• Above right: Government, municipal, and private hangars all over the world are built with Robertson products.

• Right: Standard corrugated siding sheet used in a modern, windowless, controlled-condition building.



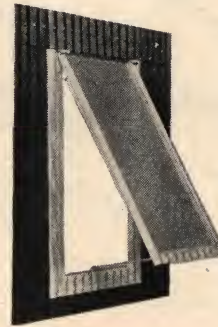
... for economical daylighting .. use SHEETLITES

Robertson Sheetlites are equally adaptable for roof or sidewall use, and can be easily and quickly removed and installed at another location. They are made in standard sheet width and can replace, or be replaced with a standard Corrugated or V-Beam sheet.

Robertson Sheetlites are designed to provide economical daylighting in buildings where the working plane does not require a light intensity of more than 15 foot candles. They can be installed in old or new buildings where either Robertson Protected Metal or Galbestos is the covering material. Made in V-Beam and Standard Corrugation types, their heavy aluminum frame provides positive counter-flashing, and eliminates the need for crickets or additional flashing of any kind.



Can be used with either roofing or siding V-Beam sheets. Overall width 29" — Overall length 5'8 3/4". Glass size 20 1/2" x 60" — Minimum girt or purlin spacing 5'2 1/2" Clear.



Made for Corrugated Sidewall installation only, the operating Sheetlite has top-hung movable glass set in aluminum frame.

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